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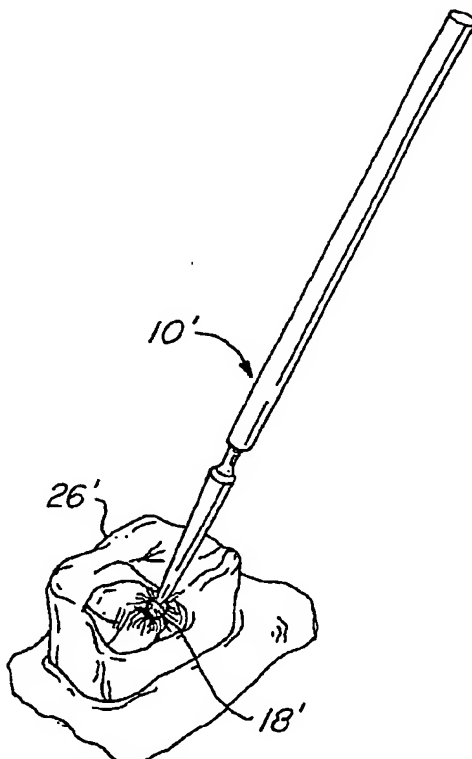
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- (71) Applicant (for all designated States except US): CEN-TRIX, INC. [US/US]; 770 River Road, Shelton, CT 06484 (US).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): DRAGAN, William, B. [US/US]; 85 Burr Street, Easton, CT 06612 (US).
- (74) Agent: FATTIBENE, Paul, A.; Fattibene and Fattibene, 2480 Post Road, Southport, CT 06890 (US).
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[Continued on next page]

(54) Title: PRE-DOSED APPLICATOR AND APPLICATOR SYSTEM INCLUDING DISPENSING OF MULTI-PART DENTAL MATERIALS



(57) Abstract: An applicator (10) for applying a material such as a chemical or a medicament. A material to be applied is placed on an absorbent portion (18) of the applicator (10), such as a flocked end, sponge or foam, brush, or other equivalent absorbent substance. After drying, the material is in an inactive stable state on the applicator. When desired, the inactive stable material is activated by water or other solvent. In another embodiment, a package (38) containing an applicator end (46) having a pre-doses dry inactive stable material is combined with a second activating material (48) so that a two-part or multi-component material may be easily dispensed and activated. The package containing the first and second component may be a tray, a capsule, or a tip end syringe. In another embodiment first and second applicators (510A, 510B) each having one dry component are re-activated and applied in sequence to create a reaction and desired material at the site of treatment. The pre-doses single use applicator may be used to apply a variety of materials, such as chemicals or medicaments, to the surface or site desired without complicated and messy mixing or cross-contamination.



SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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PCT/US03/31358

A. CLASSIFICATION OF SUBJECT MATTER

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US CL : 433/80

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 433/80, 89, 81, 82

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,290,503B1 (LEMON et al.) 18 September 2001 (18.09.2001), see entire document.	1,2,15,17

Y		16,18-34
X	US 3,863,654A (MORANE et al.) 04 February 1975 (04.02.1975), see entire document.	1-10,13,14

Y		11,12
Y	US 5,660,273A (DISCKO, JR.) 26 August 1997 (26.08.1997), see entire document.	18,19,31-34

A		35-36
Y	US 6,059,570A (DRAGAN et al.) 09 May 2000 (09.05.2000) see entire document.	11,12,16,20-30

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☐ See patent family annex.

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Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Melba B. Bingham
Telephone No. 703-308-0858